

## SUPPLEMENTARY MATERIAL: LIST OF STUDIES INCLUDED IN THE SCOPING REVIEW

### 1) A 7-year-old boy with acute onset of breathing difficulty

Salas AA. A 7-year-old boy with acute onset of breathing difficulty. *Pediatr Emerg Care*. 2010 Feb;26(2):149-51. doi: 10.1097/PEC.0b013e3181d0a04e. PMID: 20145509.

### 2) A Case of Meningitis Caused by Streptococcus pyogenes in a Child with Ventriculoperitoneal Shunt and Ommaya Reservoir

Karaaslan, Ayse, et al. "A Case of Meningitis Caused by Streptococcus pyogenes in a Child with Ventriculoperitoneal Shunt and Ommaya Reservoir/Ventriküloperitoneal Santi ve Ommaya Rezervuari Olan Çocukta Streptokokkus pyogenes Menenjitisi." *Cocuk Enfeksiyon Dergisi* 7.1 (2013): 35.

### 3) A case report of hemolytic streptococcal gangrene in the danger triangle of the face with thrombocytopenia and hepatitis

Jia XL, Pathak JL, Tong JF, Su JM. A case report of hemolytic streptococcal gangrene in the danger triangle of the face with thrombocytopenia and hepatitis. *BMC Pediatr*. 2018 Jun 22;18(1):198. doi: 10.1186/s12887-018-1177-9. PMID: 29933752; PMCID: PMC6013964.

### 4) A cluster of paediatric invasive group A streptococcal and chicken pox infections

Ó Maoldomhnaigh C, Butler K, Gavin P. A Cluster of Paediatric Invasive Group A Streptococcal and Chicken Pox Infections. *Ir Med J*. 2018 Mar 14;111(3):718. PMID: 33959990.

### 5) A multi-center clinical investigation on invasive Streptococcus pyogenes infection in China, 2010-2017

Hua CZ, Yu H, Xu HM, Yang LH, Lin AW, Lyu Q, Lu HP, Xu ZW, Gao W, Chen XJ, Wang CQ, Jing CM. A multi-center clinical investigation on invasive Streptococcus pyogenes infection in China, 2010-2017. *BMC Pediatr*. 2019 Jun 5;19(1):181. doi: 10.1186/s12887-019-1536-1. PMID: 31167650; PMCID: PMC6549372.

### 6) A rare association between group A Streptococcus purpura fulminans and diffuse alveolar hemorrhage in a young girl: A case report

Cousin E, Gaillot T, Ozanne B, Ryckewaert A, Dessard S, Tirel O, Fausser JL. A rare association between group A Streptococcus purpura fulminans and diffuse alveolar hemorrhage in a young girl: A case report. *Arch Pediatr*. 2021 Aug;28(6):488-490. doi: 10.1016/j.arcped.2021.04.012. Epub 2021 Jul 8. PMID: 34246502.

### 7) A rare case of infant sepsis due to the emm-89 genotype of Group A Streptococcus within a community-acquired cluster.

Pignanelli S, Brusa S, Pulcrano G, Catania MR, Cocchi E, Lanari M. A rare case of infant sepsis due to the emm-89 genotype of Group A Streptococcus within a community-acquired cluster. *New Microbiol*. 2015 Oct;38(4):589-92. Epub 2015 Oct 20. PMID: 26485019.

### 8) A rare case of osteomyelitis of the clavicle in a child due to Group A streptococcal infection

Ahmed MI, Nadeem M, Bandi S. A rare case of osteomyelitis of the clavicle in a child due to Group A streptococcal infection. *BMJ Case Rep*. 2019 Apr 11;12(4):e227090. doi: 10.1136/bcr-2018-227090. PMID: 30975773; PMCID: PMC6506016.

### 9) A serious and rare complication following varicella infection; streptococcal toxic shock syndrome-like case report

Aslan, Mustafa Törehhan, et al. "A serious and rare complication following varicella infection; streptococcal toxic shock syndrome-like case report." *Cocuk Enfeksiyon Dergisi* 11.4 (2017): E162-E165.

### 10) Acute necrotising fasciitis due to streptococcal infection in a newborn infant

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Nutman J, Henig E, Wilunsky E, Reisner SH. Acute necrotising fasciitis due to streptococcal infection in a newborn infant. *Arch Dis Child*. 1979 Aug;54(8):637-9. doi: 10.1136/adsc.54.8.637. PMID: 389176; PMCID: PMC1545788.

### 11) Apparent increase in the incidence of invasive group A beta-hemolytic streptococcal disease in children

Givner LB, Abramson JS, Wasilauskas B. Apparent increase in the incidence of invasive group A beta-hemolytic streptococcal disease in children. *J Pediatr*. 1991 Mar;118(3):341-6. doi: 10.1016/s0022-3476(05)82144-4. PMID: 1999773.

### 12) Bilateral peritonsillar abscess: A case report and pertinent literature review

AlAwadh I, Aldrees T, AlQaryan S, Alharethy S, AlShehri H. Bilateral peritonsillar abscess: A case report and pertinent literature review. *Int J Surg Case Rep*. 2017;36:34-37. doi: 10.1016/j.ijscr.2017.04.028. Epub 2017 May 15. PMID: 28531866; PMCID: PMC5440272.

### 13) Brain abscess caused by streptococcus pyogenes in a previously healthy child

Dehority W, Uchiyama S, Khosravi A, Nizet V. Brain abscess caused by *Streptococcus pyogenes* in a previously healthy child. *J Clin Microbiol*. 2006 Dec;44(12):4613-5. doi: 10.1128/JCM.01724-06. Epub 2006 Oct 25. PMID: 17065264; PMCID: PMC1698393.

### 14) Bullous impetigo: a rare presentation in fulminant streptococcal toxic shock syndrome.

Lin JJ, Wu CT, Hsia SH, Chiu CH. Bullous impetigo: a rare presentation in fulminant streptococcal toxic shock syndrome. *Pediatr Emerg Care*. 2007 May;23(5):318-20. doi: 10.1097/01.pec.0000270166.62991.8c. PMID: 17505275.

### 15) Case report: Streptococcal toxic shock syndrome presenting as septic thrombophlebitis in a child with varicella

Cohen-Abbo A, Harper MB. Case report: streptococcal toxic shock syndrome presenting as septic thrombophlebitis in a child with varicella. *Pediatr Infect Dis J*. 1993 Dec;12(12):1033-4. PMID: 8108215.

### 16) Cellulitis and sepsis caused by group a streptococcus in Saudi neonate: Case report

Sobaih, Badr Hasan, and Adrian Hadid. "Cellulitis and Sepsis Caused by Group A Streptococcus in Saudi Neonate: Case Report." *Kuwait Medical Journal* 48.3 (2016): 253-254.

### 17) Cellulitis-adenitis in a neonate with group a streptococcal sepsis

Huber BM. Cellulitis-adenitis in a neonate with group a streptococcal sepsis. *Klin Padiatr*. 2014 Apr;226(2):82-3. doi: 10.1055/s-0033-1363255. Epub 2014 Mar 14. PMID: 24633980.

### 18) Characteristics of Intracranial Group A Streptococcal Infections in US Children, 1997-2014.

Link-Gelles R, Toews KA, Schaffner W, Edwards KM, Wright C, Beall B, Barnes B, Jewell B, Harrison LH, Kirley PD, Lorentzson L, Aragon D, Petit S, Bareta J, Spina NL, Cieslak PR, Van Beneden C. Characteristics of Intracranial Group A Streptococcal Infections in US Children, 1997-2014. *J Pediatric Infect Dis Soc*. 2020 Feb 28;9(1):30-35. doi: 10.1093/jpids/piy108. PMID: 30462264; PMCID: PMC8931553.

### 19) Clinical and epidemiologic features of invasive group A streptococcal infections in children

Mulla ZD. Clinical and epidemiologic features of invasive group A streptococcal infections in children. *Pediatr Int*. 2007 Jun;49(3):355-8. doi: 10.1111/j.1442-200X.2007.02378.x. PMID: 17532835.

### 20) Clinical and Laboratory Features of Invasive Group A Streptococcal Infections: 8 Years Experience

Şahin A, Yüksel NC, Karadağ Öncel E, Kara Aksay A, Yılmaz N, Yılmaz Çiftdoğan D. Clinical and Laboratory Features of Invasive Group A Streptococcal Infections: 8 Years Experience. *Turk Arch Pediatr*. 2022 Jan;57(1):75-80. doi: 10.5152/TurkArchPediatr.2022.21221. PMID: 35110082; PMCID: PMC8867505.

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### 21) Clinical and microbiologic characteristics of group A streptococcal necrotizing fasciitis in children.

Minodier P, Bidet P, Rallu F, Tapiero B, Bingen E, Ovetchkine P. Clinical and microbiologic characteristics of group A streptococcal necrotizing fasciitis in children. *Pediatr Infect Dis J*. 2009 Jun;28(6):541-3. doi: 10.1097/inf.0b013e318195bb10. PMID: 19504739.

### 22) Clinical characteristics of children with group A streptococcal toxic shock syndrome admitted to pediatric intensive care units.

Rodríguez-Nuñez A, Dosil-Gallardo S, Jordan I; ad hoc Streptococcal Toxic Shock Syndrome collaborative group of Spanish Society of Pediatric Intensive Care. Clinical characteristics of children with group A streptococcal toxic shock syndrome admitted to pediatric intensive care units. *Eur J Pediatr*. 2011 May;170(5):639-44. doi: 10.1007/s00431-010-1337-x. Epub 2010 Oct 28. PMID: 20981441.

### 23) Clinical Description and Outcomes of Australian Children With Invasive Group A Streptococcal Disease.

Thielemans E, Oliver J, McMinn A, Baker C, Britton PN, Clark J, Marshall H, Blyth CC, Francis J, Buttery J, Smeesters PR, Crawford N, Steer AC. Clinical Description and Outcomes of Australian Children With Invasive Group A Streptococcal Disease. *Pediatr Infect Dis J*. 2020 May;39(5):379-384. doi: 10.1097/INF.0000000000002596. PMID: 32091492.

### 24) Diagnosis and treatment of streptococcal toxic shock syndrome in the pediatric intensive care unit: a case report.

Carvalho HT, Fioretto JR, Ribeiro CF, Laraia IO, Carpi MF. Diagnosis and treatment of streptococcal toxic shock syndrome in the pediatric intensive care unit: a case report. *Rev Bras Ter Intensiva*. 2019 Oct-Dec;31(4):586-591. doi: 10.5935/0103-507X.20190068. PMID: 31967236; PMCID: PMC7009001.

### 25) Emergence of invasive group A Streptococcal disease among young children

Novotny W, Faden H, Mosovich L. Emergence of invasive group A streptococcal disease among young children. *Clin Pediatr (Phila)*. 1992 Oct;31(10):596-601. doi: 10.1177/000992289203101004. PMID: 1395366.

### 26) Endogenous endophthalmitis as a severe complication following a Streptococcus pyogenes infection.

Martinod M, Bost-Bru C, Mortamet G. Endogenous endophthalmitis as a severe complication following a Streptococcus pyogenes infection. *Arch Pediatr*. 2020 Nov;27(8):506-508. doi: 10.1016/j.arcped.2020.08.012. Epub 2020 Oct 1. PMID: 33011024.

### 27) Fatal group a streptococcal toxic shock-like syndrome in a child with varicella: Report of the first well documented case with detection of the genetic sequences that code for exotoxins spe A and B, in São Paulo, Brazil

Sztajn bok J, Lovgren M, Brandileone MC, Marotto PC, Talbot JA, Seguro AC. Fatal group A Streptococcal toxic shock-like syndrome in a child with varicella: report of the first well documented case with detection of the genetic sequences that code for exotoxins spe A and B, in São Paulo, Brazil. *Rev Inst Med Trop Sao Paulo*. 1999 Jan-Feb;41(1):63-5. doi: 10.1590/s0036-46651999000100011. PMID: 10436672.

### 28) Fatal necrotizing pneumonia caused by group A streptococcus

Cengiz AB, Kanra G, Çağlar M, Kara A, Güçer S, Ince T. Fatal necrotizing pneumonia caused by group A streptococcus. *J Paediatr Child Health*. 2004 Jan-Feb;40(1-2):69-71. doi: 10.1111/j.1440-1754.2004.00296.x. PMID: 14718011.

### 29) Fulminant liver failure in a child with invasive group A streptococcal infection

Biesel-Desthieux MN, Tissières P, Belli DC, Le Coultre C, Gervais A, Masserey Spicher V. Fulminant liver failure in a child with invasive group A streptococcal infection. *Eur J Pediatr*. 2003 Apr;162(4):245-7. doi: 10.1007/s00431-002-1137-z. Epub 2003 Feb 6. PMID: 12647197.

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30) Group A beta-hemolytic streptococcal bacteremia in a patient with sickle cell anemia on penicillin prophylaxis.

LeBlanc W, Salah H, Khakoo Y. Group A beta-hemolytic streptococcal bacteremia in a patient with sickle cell anemia on penicillin prophylaxis. *J Natl Med Assoc.* 1995 May;87(5):347-8. PMID: 7783241; PMCID: PMC2607793.

31) Group A beta-hemolytic streptococcal bacteremia in children

Yagupsky P, Giladi Y. Group A beta-hemolytic streptococcal bacteremia in children. *Pediatr Infect Dis J.* 1987 Nov;6(11):1036-9. PMID: 3320930.

32) Group A beta-hemolytic streptococcal bacteremia.

Abuhammour W, Hasan RA, Unuvar E. Group A beta-hemolytic streptococcal bacteremia. *Indian J Pediatr.* 2004 Oct;71(10):915-9. doi: 10.1007/BF02830836. PMID: 15531835.

33) Group A beta-hemolytic streptococcal colitis with secondary bacteremia.

Arthur C, Linam LE, Linam WM. Group A beta-hemolytic streptococcal colitis with secondary bacteremia. *Pediatr Infect Dis J.* 2012 Oct;31(10):1093-5. doi: 10.1097/INF.0b013e31826318c6. PMID: 22683673.

34) Group A beta-hemolytic streptococcal epiglottitis as a complication of varicella infection.

Belfer RA. Group A beta-hemolytic streptococcal epiglottitis as a complication of varicella infection. *Pediatr Emerg Care.* 1996 Jun;12(3):203-4. doi: 10.1097/00006565-199606000-00013. PMID: 8806145.

35) Group a beta-hemolytic streptococcal pneumonia: clinical course and complications of management.

Molteni RA. Group a beta-hemolytic streptococcal pneumonia: clinical course and complications of management. *Am J Dis Child.* 1977 Dec;131(12):1366-71. doi: 10.1001/archpedi.1977.02120250048008. PMID: 337794.

36) Group A beta-hemolytic streptococcal septicemia complicating infected hemangioma in children.

Yagupsky P, Giladi Y. Group A beta-hemolytic streptococcal septicemia complicating infected hemangioma in children. *Pediatr Dermatol.* 1987 May;4(1):24-6. doi: 10.1111/j.1525-1470.1987.tb00748.x. PMID: 3295826.

37) Group a beta-hemolytic streptococcal toxic shock-like syndrome

Begovac J, Marton E, Lisić M, Beus I, Bozinović D, Kuzmanović N. Group A beta-hemolytic streptococcal toxic shock-like syndrome. *Pediatr Infect Dis J.* 1990 May;9(5):369-70. doi: 10.1097/00006454-199005000-00013. PMID: 2352822.

38) Group A beta-hemolytic streptococci as a cause of bacteremia in children.

Wong VK, Wright HT Jr. Group A beta-hemolytic streptococci as a cause of bacteremia in children. *Am J Dis Child.* 1988 Aug;142(8):831-3. doi: 10.1001/archpedi.1988.02150080037016. PMID: 3293424.

39) Group A beta-hemolytic streptococcus and waterhouse-friderichsen syndrome

Gertner M, Rodriguez L, Barnett SH, Shah K. Group A beta-hemolytic Streptococcus and Waterhouse-Friderichsen syndrome. *Pediatr Infect Dis J.* 1992 Jul;11(7):595-6. doi: 10.1097/00006454-199207000-00019. PMID: 1528655.

40) Group a streptococcal bacteremia without a source is associated with less severe disease in children

Gauguet S, Ahmed AA, Zhou J, Pfoh ER, Ahnger-Pier KK, Harper MB, Ozonoff A, Wessels MR, Lee GM. Group A streptococcal bacteremia without a source is associated with less severe disease in children. *Pediatr Infect Dis J.* 2015 Apr;34(4):447-9. doi: 10.1097/INF.0000000000000587. PMID: 25319760; PMCID: PMC4357552.

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### 41) Group A Streptococcal Brain Abscess in the Pediatric Population: Case Series and Review of the Literature.

Capua T, Klivitsky A, Bilavsky E, Ashkenazi-Hoffnung L, Roth J, Constantini S, Grisaru-Soen G. Group A Streptococcal Brain Abscess in the Pediatric Population: Case Series and Review of the Literature. *Pediatr Infect Dis J*. 2018 Oct;37(10):967-970. doi: 10.1097/INF.0000000000001947. PMID: 29462105.

### 42) Group A streptococcal brain abscess: A case report and a review of the literature since 1988 Group A streptococcal brain abscess.

Hayashi A, Takano T, Suzuki A, Narumiya S. Group A streptococcal brain abscess: a case report and a review of the literature since 1988. *Scand J Infect Dis*. 2011 Jul;43(6-7):553-5. doi: 10.3109/00365548.2011.564648. Epub 2011 Mar 9. PMID: 21385096.

### 43) Group A streptococcal meningitis as a complication of an infected capillary haemangioma Rezvani M, Yager JY, Hartfield DS. Group A streptococcal meningitis as a complication of an infected capillary haemangioma. *Eur J Pediatr*. 2004 Jan;163(1):19-21. doi: 10.1007/s00431-003-1334-4. Epub 2003 Nov 11. PMID: 14610671.

### 44) Group A streptococcal meningitis complicating varicella.

Gradon JD, Chopnick EK, Lutwick LI, Tepperberg J, Kahn M. Group A streptococcal meningitis complicating varicella. *Pediatr Infect Dis J*. 1991 Oct;10(10):786-7. PMID: 1945585.

### 45) Group a streptococcal meningitis in a pediatric patient

Fanella S, Embree J. Group A streptococcal meningitis in a pediatric patient. *Can J Infect Dis Med Microbiol*. 2008 Jul;19(4):306-8. doi: 10.1155/2008/594583. PMID: 19436512; PMCID: PMC2604778.

### 46) Group A streptococcal meningitis in a pediatric patient following cochlear implantation: report of the first case and review of the literature.

Pettersen G, Ovetchkine P, Tapiero B. Group A streptococcal meningitis in a pediatric patient following cochlear implantation: report of the first case and review of the literature. *J Clin Microbiol*. 2005 Nov;43(11):5816-8. doi: 10.1128/JCM.43.11.5816-5818.2005. PMID: 16272530; PMCID: PMC1287785.

### 47) Group A streptococcal meningitis in a previously healthy infant

Gupta, Puneet Kumar; Chauhan, Smriti; Guleria, Ramesh Chand; Kanga, Anil; Singh, Digvijay. Group A streptococcal meningitis in a previously healthy infant. *journal-of-pediatric-infectious-diseases/jpi00357*. Sun Jan 01 00:00:00 GMT 2012. Doi: 10.3233/JPI-120357.

### 48) Group a streptococcal meningitis without predisposing factors

Brown CC, Pickering LK, Baker CJ. Group A streptococcal meningitis without predisposing factors. *South Med J*. 1981 Aug;74(8):1029-30. doi: 10.1097/00007611-198108000-00049. PMID: 7022665.

### 49) Group A streptococcal meningitis: a case report.

Buseti M, Marchetti F, Croci E, L'erario I, Creti R, D'Agaro P. Group A streptococcal meningitis: a case report. *New Microbiol*. 2013 Oct;36(4):419-22. Epub 2013 Oct 1. PMID: 24177305.

### 50) Group A streptococcal meningitis: Case report and review of the literature

Perera N, Abulhoul L, Green MR, Swann RA. Group A streptococcal meningitis: case report and review of the literature. *J Infect*. 2005 Aug;51(2):E1-4. doi: 10.1016/j.jinf.2004.06.006. PMID: 16038740.

### 51) Group a streptococcal meningitis: Report of two cases

Moses AE, Beeri M, Engelhard D. Group A streptococcal meningitis: report of two cases. *J Infect*. 1998 Jan;36(1):116-8. doi: 10.1016/s0163-4453(98)93558-7. PMID: 9515681.

### 52) Group a streptococcal necrotizing fasciitis following varicella in children: Case reports and review

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Wilson GJ, Talkington DF, Gruber W, Edwards K, Dermody TS. Group A streptococcal necrotizing fasciitis following varicella in children: case reports and review. *Clin Infect Dis*. 1995 May;20(5):1333-8. doi: 10.1093/clinids/20.5.1333. PMID: 7620020.

### 53) Group A streptococcal osteomyelitis: Severe presentation and course

Turner D, Einhorn M. Group A streptococcal osteomyelitis: severe presentation and course. *Acta Paediatr*. 2003;92(1):125-7. doi: 10.1111/j.1651-2227.2003.tb00484.x. PMID: 12650315.

### 54) Group A streptococcal pharyngitis associated with primary peritonitis

Sharp EA, Linn A, Zitelli BJ. Group A streptococcal pharyngitis associated with primary peritonitis. *BMJ Case Rep*. 2019 May 6;12(5):e229186. doi: 10.1136/bcr-2019-229186. PMID: 31061197; PMCID: PMC6510132.

### 55) Group A streptococcal primary peritonitis in a healthy girl

Chomton M, Emeriaud G, Bidet P, Rallu F, Ovetchkine P, Gaschignard J. Group A streptococcal primary peritonitis in a healthy girl. *J Paediatr Child Health*. 2017 Jun;53(6):615-616. doi: 10.1111/jpc.13584. PMID: 28573799.

### 56) Group A streptococcal septic vasculitis in a child with dengue hemorrhagic fever

Vitug MR, Dayrit JF, Oblepias MS, Honrado ER. Group A streptococcal septic vasculitis in a child with dengue hemorrhagic fever. *Int J Dermatol*. 2006 Dec;45(12):1458-61. doi: 10.1111/j.1365-4632.2006.03084.x. PMID: 17184265.

### 57) Group A streptococcal septicemia, meningitis and cerebral abscess: case report and literature review.

Paul SP, Jerwood S. Group A streptococcal septicemia, meningitis and cerebral abscess: case report and literature review. *Turk J Pediatr*. 2012 Mar-Apr;54(2):180-3. PMID: 22734307.

### 58) Group A streptococcal subdural empyema as a complication of varicella

Ulloa-Gutierrez R, Dobson S, Forbes J. Group A streptococcal subdural empyema as a complication of varicella. *Pediatrics*. 2005 Jan;115(1):e112-4. doi: 10.1542/peds.2004-1336. PMID: 15629962.

### 59) Group A streptococcal toxic shock syndrome and associated respiratory distress.

Friedman O, Cook SP. Group A streptococcal toxic shock syndrome and associated respiratory distress. *Otolaryngol Head Neck Surg*. 1999 Apr;120(4):566-9. doi: 10.1053/hn.1999.v120.a82447. PMID: 10187961.

### 60) Group a streptococcal tracheitis associated with toxic shock syndrome

Burns JA, Brown J, Ogle JW. Group A streptococcal tracheitis associated with toxic shock syndrome. *Pediatr Infect Dis J*. 1998 Oct;17(10):933-5. doi: 10.1097/00006454-199810000-00024. PMID: 9802646.

### 61) Group A Streptococcus and hepatitis - Streptococcal toxic shock syndrome

Kenny, Benjamin; Gupta, Sanjeev; Brumby, Jarrod; Burton, Joanna; Moloney, Susan E. Group A Streptococcus and hepatitis – streptococcal toxic shock syndrome. *journal-of-pediatric-infectious-diseases/jpi00173*. Thu Jan 01 00:00:00 GMT 2009.doi 10.3233/JPI-2009-0173

### 62) Group A Streptococcus bacteremia among infants: A study from tertiary health care center of North India

Singla, Nidhi, et al. "Group A Streptococcus bacteremia among infants: A study from tertiary health care center of North India." *Annals of Tropical Medicine & Public Health* 5.6 (2012).

### 63) Group A Streptococcus puerperal sepsis with invasive neonatal infection: A fatal case.

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Siti Hafsyah MH, Ibrahim NR, Noraida R, Ismail AA, Anani Aila MZ, Hajissa K, Zeehaida M. Group A Streptococcus puerperal sepsis with invasive neonatal infection: A fatal case. *Med J Malaysia*. 2021 Sep;76(5):731-733. PMID: 34508383.

64) Group A  $\beta$ -hemolytic streptococcal hemorrhagic colitis complicated with pharyngitis and impetigo  
Isozaki A, Matsubara K, Yui T, Kobayashi K, Kawano Y. Group A beta-hemolytic streptococcal hemorrhagic colitis complicated with pharyngitis and impetigo. *J Infect Chemother*. 2007 Dec;13(6):411-3. doi: 10.1007/s10156-007-0550-7. Epub 2007 Dec 25. PMID: 18095091.

65) Increased incidence and severity of Streptococcus pyogenes bacteremia in young children.  
Moses AE, Ziv A, Harari M, Rahav G, Shapiro M, Englehard D. Increased incidence and severity of Streptococcus pyogenes bacteremia in young children. *Pediatr Infect Dis J*. 1995 Sep;14(9):767-70. doi: 10.1097/00006454-199509000-00007. PMID: 8559625.

66) Invasive disease due to group A beta-hemolytic streptococci: continued occurrence in children in North Carolina.  
Givner LB. Invasive disease due to group A beta-hemolytic streptococci: continued occurrence in children in North Carolina. *South Med J*. 1998 Apr;91(4):333-7. doi: 10.1097/00007611-199804000-00003. PMID: 9563422.

67) Invasive group A streptococcal disease in children and association with varicella-zoster virus infection. Ontario Group A Streptococcal Study Group.  
Laupland KB, Davies HD, Low DE, Schwartz B, Green K, McGeer A. Invasive group A streptococcal disease in children and association with varicella-zoster virus infection. Ontario Group A Streptococcal Study Group. *Pediatrics*. 2000 May;105(5):E60. doi: 10.1542/peds.105.5.e60. PMID: 10799624.

68) Invasive group A streptococcal infection after tonsillectomy  
Timmers-Raaijmakers BC, Wolfs TF, Jansen NJ, Bos AP, van Vught AJ. Invasive group A streptococcal infection after tonsillectomy. *Pediatr Infect Dis J*. 2003 Oct;22(10):929-31. doi: 10.1097/01.inf.0000091361.22838.77. PMID: 14579819.

69) Invasive group A streptococcal infection and nonsteroidal antiinflammatory drug use among children with primary varicella  
Lesko SM, O'Brien KL, Schwartz B, Vezina R, Mitchell AA. Invasive group A streptococcal infection and nonsteroidal antiinflammatory drug use among children with primary varicella. *Pediatrics*. 2001 May;107(5):1108-15. doi: 10.1542/peds.107.5.1108. PMID: 11331694.

70) Invasive group A streptococcal infection in the Northern Territory, Australia: case report and review of the literature.  
Middleton B, Morris P, Carapetis J. Invasive group A streptococcal infection in the Northern Territory, Australia: case report and review of the literature. *J Paediatr Child Health*. 2014 Nov;50(11):869-73. doi: 10.1111/jpc.12659. Epub 2014 Jun 23. PMID: 24957474.

71) Invasive group A streptococcal infections in children with varicella in Southern California.  
Vugia DJ, Peterson CL, Meyers HB, Kim KS, Arrieta A, Schlievert PM, Kaplan EL, Werner SB. Invasive group A streptococcal infections in children with varicella in Southern California. *Pediatr Infect Dis J*. 1996 Feb;15(2):146-50. doi: 10.1097/00006454-199602000-00011. PMID: 8822288.

72) Invasive group A Streptococcus disease in Australian children: 2016 to 2018 - a descriptive cohort study.  
Oliver J, Thielemans E, McMinn A, Baker C, Britton PN, Clark JE, Marshall HS, Blyth CC, Francis J, Buttery J, Steer AC, Crawford NW; PAEDS investigators. Invasive group A Streptococcus disease in Australian children: 2016 to 2018 - a descriptive cohort study. *BMC Public Health*. 2019 Dec 30;19(1):1750. doi:

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10.1186/s12889-019-8085-2. Erratum in: BMC Public Health. 2021 May 3;21(1):855. PMID: 31888568; PMCID: PMC6937995.

### 73) Invasive Group A Streptococcus Infection among Children, Rural Kenya.

Seale AC, Davies MR, Anampiu K, Morpeth SC, Nyongesa S, Mwarumba S, Smeesters PR, Efstratiou A, Karugutu R, Mturi N, Williams TN, Scott JA, Kariuki S, Dougan G, Berkley JA. Invasive Group A Streptococcus Infection among Children, Rural Kenya. *Emerg Infect Dis*. 2016 Feb;22(2):224-32. doi: 10.3201/eid2202.151358. PMID: 26811918; PMCID: PMC4734542.

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Canetti M, Carmi A, Paret G, Goldberg L, Adler A, Amit S, Rokney A, Ron M, Grisaru-Soen G. Invasive Group A Streptococcus Infection in Children in Central Israel in 2012-2019. *Pediatr Infect Dis J*. 2021 Jul 1;40(7):612-616. doi: 10.1097/INF.0000000000003087. PMID: 34097654.

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Pemira SM, Tolan RW Jr. Invasive group A streptococcus infection presenting as purulent pericarditis with multiple splenic abscesses: case report and literature review. *Clin Pediatr (Phila)*. 2012 May;51(5):436-41. doi: 10.1177/0009922811430345. Epub 2011 Dec 8. PMID: 22157427.

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Wilson PF, Wannemuehler TJ, Matt BH. Invasive group A Streptococcus resulting in sepsis and abdominal wall abscess after adenotonsillectomy. *Laryngoscope*. 2015 May;125(5):1230-2. doi: 10.1002/lary.24997. Epub 2014 Nov 1. PMID: 25363250.

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Germont Z, Bidet P, Plainvert C, Bonacorsi S, Poyart C, Biran V, Frérot A, Faye A, Basmaci R. Invasive *Streptococcus pyogenes* Infections in <3-Month-Old Infants in France: Clinical and Laboratory Features. *Front Pediatr*. 2020 May 6;8:204. doi: 10.3389/fped.2020.00204. PMID: 32435626; PMCID: PMC7217982.

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### 80) Mandibular osteomyelitis after group A streptococcal septicaemia in a child.

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Cook A, Janse S, Watson JR, Erdem G. Manifestations of Toxic Shock Syndrome in Children, Columbus, Ohio, USA, 2010-2017<sup>1</sup>. *Emerg Infect Dis*. 2020 Jun;26(6):1077-1083. doi: 10.3201/eid2606.190783. PMID: 32442091; PMCID: PMC7258457.



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### 82) Meningitis caused by toxigenic group A beta-hemolytic streptococcus in a pediatric patient with acquired immunodeficiency syndrome

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### 83) Meningitis in a girl with recurrent otitis media caused by Streptococcus pyogenes - Otitis media has to be treated appropriately

Steppberger K, Adams I, Deutscher J, Müller H, Kiess W. Meningitis in a girl with recurrent otitis media caused by Streptococcus pyogenes--otitis media has to be treated appropriately. *Infection*. 2001 Oct;29(5):286-8. doi: 10.1007/s15010-001-1065-2. PMID: 11688910.

### 84) Molecular Characterization of Streptococcus pyogenes Causing Invasive Disease in Pediatric Population in Spain A 12-year Study.

Sánchez-Encinales V, Ludwig G, Tamayo E, García-Arenzana JM, Muñoz-Almagro C, Montes M. Molecular Characterization of Streptococcus pyogenes Causing Invasive Disease in Pediatric Population in Spain A 12-year Study. *Pediatr Infect Dis J*. 2019 Dec;38(12):1168-1172. doi: 10.1097/INF.0000000000002471. PMID: 31738331.

### 85) Multifocal bacterial osteomyelitis after varicella infection: a rare but dreaded complication of chickenpox.

Gallach Sanchis D, Doñate Pérez F, Jiménez Ortega P. Multifocal bacterial osteomyelitis after varicella infection: a rare but dreaded complication of chickenpox. *Musculoskelet Surg*. 2014 Jun;98(1):61-5. doi: 10.1007/s12306-012-0185-4. Epub 2012 Jun 17. PMID: 22707015.

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Peterson CL, Vugia DJ, Meyers HB, Chao SM, Vogt J, Lanson J, Brunell PA, Kim KS, Mascola L. Risk factors for invasive group A streptococcal infections in children with varicella: a case-control study. *Pediatr Infect Dis J*. 1996 Feb;15(2):151-6. doi: 10.1097/00006454-199602000-00012. PMID: 8822289.

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### 88) When should clinicians suspect group A streptococcus empyema in children? A multicentre case-control study in French tertiary care centres

Bellulo S, Sommet J, Lévy C, Gillet Y, Hees L, Lorrot M, Gras-Le-Guen C, Craiu I, Dubos F, Minodier P, Biscardi S, Dommergues MA, Béchet S, Bidet P, Alberti C, Cohen R, Faye A; French Pediatric Infectious Diseases Study Group (GPIP). When should clinicians suspect group A streptococcus empyema in children? A multicentre case-control study in French tertiary care centres. *Arch Dis Child*. 2016 Aug;101(8):731-5. doi: 10.1136/archdischild-2015-309831. Epub 2016 Apr 12. PMID: 27073159.

### 89) Two cases and a review of Streptococcus pyogenes endocarditis in children

Weidman DR, Al-Hashami H, Morris SK. Two cases and a review of Streptococcus pyogenes endocarditis in children. *BMC Pediatr*. 2014 Sep 10;14:227. doi: 10.1186/1471-2431-14-227. PMID: 25208720; PMCID: PMC4169802.

### 90) Sudden Unexpected Death in a Child With Varicella Caused by Necrotizing Fasciitis and Streptococcal Toxic Shock Syndrome

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Abuelreish MA, Rathore MH. Subpectoral abscess a rare group A beta-hemolytic *Streptococcus* infection. *Pediatr Infect Dis J*. 2005 Dec;24(12):1121-2. doi: 10.1097/01.inf.0000190037.79533.34. PMID: 16371884.

### 92) *Streptococcus pyogenes*-purpura fulminans as an invasive form of group A streptococcal infection.

Okuzono S, Ishimura M, Kanno S, Sonoda M, Kaku N, Motomura Y, Nishio H, Oba U, Hanada M, Fukushi JI, Urata M, Kang D, Takada H, Ohga S. *Streptococcus pyogenes*-purpura fulminans as an invasive form of group A streptococcal infection. *Ann Clin Microbiol Antimicrob*. 2018 Jul 9;17(1):31. doi: 10.1186/s12941-018-0282-9. PMID: 29986727; PMCID: PMC6036671.

### 93) *Streptococcus pyogenes* meningitis: Report of a case and review of the literature

Berner R, Herdeg S, Gordjani N, Brandis M. *Streptococcus pyogenes* meningitis: report of a case and review of the literature. *Eur J Pediatr*. 2000 Jul;159(7):527-9. doi: 10.1007/s004310051325. PMID: 10923229.

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López-Corominas V, Yagüe F, Knöpfel N, Dueñas J, Gil J, Martín-Santiago A, Hervás JA. *Streptococcus pyogenes* cervical intertrigo with secondary bacteremia. *Pediatr Dermatol*. 2014 Mar-Apr;31(2):e71-2. doi: 10.1111/pde.12256. Epub 2014 Jan 23. PMID: 24456009.

### 95) *Streptococcus pyogenes* Associated Post-traumatic Brodie's Abscess of Cuboid: A Case Report and Review of Literature

Amit P, Maharajan K, Varma B. *Streptococcus pyogenes* Associated Post-traumatic Brodie's Abscess of Cuboid: A Case Report and Review of Literature. *J Orthop Case Rep*. 2015 Jul-Sep;5(3):84-6. doi: 10.13107/jocr.2250-0685.318. PMID: 27299080; PMCID: PMC4719413.

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Torres-Martínez C, Mehta D, Butt A, Levin M. *Streptococcus* associated toxic shock. *Arch Dis Child*. 1992 Jan;67(1):126-30. doi: 10.1136/ad.67.1.126. PMID: 1739326; PMCID: PMC1793551.

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al Mazrou AM. Streptococcal toxic shock-like syndrome: case report and review of the literature. *Ann Trop Paediatr*. 1994;14(2):145-8. doi: 10.1080/02724936.1994.11747707. PMID: 7521630.

### 98) Streptococcal toxic shock syndrome in children

Floret D, Stamm D, Cochat P, Delmas P, Kohler W. Streptococcal toxic shock syndrome in children. *Intensive Care Med*. 1992;18(3):175-6. doi: 10.1007/BF01709243. PMID: 1644967.

### 99) Streptococcal Toxic Shock Syndrome in a Child With Venous Malformation

Yoshida T, Asakura Y, Miura S, Endo M, Akasaka M. Streptococcal Toxic Shock Syndrome in a Child With Venous Malformation. *Cureus*. 2022 Jan 10;14(1):e21096. doi: 10.7759/cureus.21096. PMID: 35165555; PMCID: PMC8829108.

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Krishna V, Sankaranarayan S, Sivaraman RP, Prabakaran K. Streptococcal Toxic Shock syndrome. *Indian J Pediatr*. 2014 Sep;81(9):946-8. doi: 10.1007/s12098-013-1272-8. Epub 2013 Dec 3. PMID: 24297338.

### 101) Streptococcal pharyngitis: An uncommon cause of subdural empyema

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Javouhey E, Bolze PA, Jamen C, Lina G, Badiou C, Poyart C, Portefaix A, Tristan A, Laurent F, Bes M, Vandenesch F, Gilletand Y, Dauwalder O. Similarities and Differences Between Staphylococcal and Streptococcal Toxic Shock Syndromes in Children: Results From a 30-Case Cohort. *Front Pediatr.* 2018 Nov 28;6:360. doi: 10.3389/fped.2018.00360. PMID: 30547021; PMCID: PMC6280580.

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Lequier L, Vaudry WL. Puerperal fever and neonatal pleural empyema and bacteremia caused by group A streptococcus. *Can J Infect Dis.* 1998 May;9(3):185-8. doi: 10.1155/1998/470984. PMID: 22346542; PMCID: PMC3250907.

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Patel RV, Kumar H, More B, Rajimwale A. Primary group A streptococcal septic shock syndrome simulating perforated appendicitis in a previously healthy girl. *BMJ Case Rep*. 2013 May 4;2013:bcr2013009502. doi: 10.1136/bcr-2013-009502. PMID: 23645702; PMCID: PMC3670001.

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Duhra P, Ilchyshyn A. Perianal streptococcal cellulitis with penile involvement. *Br J Dermatol*. 1990 Dec;123(6):793-6. doi: 10.1111/j.1365-2133.1990.tb04199.x. PMID: 2265096.

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Gheuens L, Roggeman Q, Cortebeeck K, Leyman P, Bernaerts A, De Foer B, Van Leemput J, van Dinther J. Pediatric necrotizing soft tissue infection after elective surgery: A case report and literature review. *Int J Pediatr Otorhinolaryngol*. 2020 Nov;138:110195. doi: 10.1016/j.ijporl.2020.110195. Epub 2020 Jul 10. PMID: 32705989.

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Sakata H. Pediatric invasive streptococcal infection in northern and eastern regions of Hokkaido, Japan from 2010 to 2012. *Pediatr Int*. 2014 Jun;56(3):360-3. doi: 10.1111/ped.12250. Epub 2014 Mar 10. PMID: 24274786.

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Viani RM, Bromberg K, Bradley JS. Obturator internus muscle abscess in children: report of seven cases and review. *Clin Infect Dis*. 1999 Jan;28(1):117-22. doi: 10.1086/515080. PMID: 10028081.

120) Numerous eruptive lesions of panniculitis associated with group A streptococcus bacteremia in an immunocompetent child

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Thaarup J, Ellermann-Eriksen S, Stjernholm J. Neonatal pleural empyema with group A Streptococcus. *Acta Paediatr*. 1997 Jul;86(7):769-71. doi: 10.1111/j.1651-2227.1997.tb08585.x. PMID: 9240890.

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De La Torre M, Solé C, Fanjul M, Berenguer B, Arriaga-Redondo M, de Tomás E, Lorca-García C. Neonatal Fournier's Gangrene: Avoiding Extensive Debridement. *Pediatr Infect Dis J*. 2021 Oct 1;40(10):e384-e387. doi: 10.1097/INF.0000000000003224. PMID: 34292272.

### 123) Necrotizing fasciitis with toxic shock syndrome in a child: a case report and review of literature.

Abass K, Saad H, Abd-Elsayed AA. Necrotizing fasciitis with toxic shock syndrome in a child: a case report and review of literature. *Cases J*. 2008 Oct 8;1(1):228. doi: 10.1186/1757-1626-1-228. PMID: 18842146; PMCID: PMC2577109.

### 124) Necrotizing fasciitis of the retroperitoneum: An unusual presentation of group a streptococcus infection

Devin B, McCarthy A, Mehran R, Auger C. Necrotizing fasciitis of the retroperitoneum: an unusual presentation of group A Streptococcus infection. *Can J Surg*. 1998 Apr;41(2):156-60. PMID: 9576000; PMCID: PMC3949830.

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Cancellara AD, Melonari P, Firpo MV, Mónaco A, Ezcurra GC, Ruiz L, Aletti AM, Gregorio G, Gaiano A, Aird A, Bellone L, Calvari M, Torregrosa C, Morinigo S, Vozzan ML, Tonetto I, Flynn LP, Bidone NM, Russ C, Ellis A. Multicenter study on invasive Streptococcus pyogenes infections in children in Argentina. *Arch Argent Pediatr*. 2016 Jun 1;114(3):199-208. English, Spanish. doi: 10.5546/aap.2016.eng.199. Epub 2016 Apr 12. PMID: 27164331.

### 126) Localized meningoenkephalitis and group A streptococcal bacteremia.

Levy EN, Griffith JA, Carvajal HF. Localized meningoenkephalitis and group A streptococcal bacteremia. *Clin Pediatr (Phila)*. 1992 Jul;31(7):438-41. doi: 10.1177/000992289203100712. PMID: 1617870.

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Saito R, Kerr-Liddell R, Paul SP. Late onset neonatal sepsis caused by group A streptococcus. *Br J Hosp Med (Lond)*. 2017 Mar 2;78(3):170-171. doi: 10.12968/hmed.2017.78.3.170. PMID: 28277774.

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### 129) Invasive Group A Streptococcal Infections in Children: A Nationwide Survey in Finland.

Tapiainen T, Launonen S, Renko M, Saxen H, Salo E, Korppi M, Kainulainen L, Heiskanen-Kosma T, Lindholm L, Vuopio J, Huotari T, Rusanen J, Uhari M. Invasive Group A Streptococcal Infections in Children: A Nationwide Survey in Finland. *Pediatr Infect Dis J*. 2016 Feb;35(2):123-8. doi: 10.1097/INF.0000000000000945. PMID: 26440814.

### 130) Invasive group A streptococcal infection in children: Clinical manifestations and molecular characterization in a French pediatric tertiary care center

## SUPPLEMENTARY MATERIAL: LIST OF STUDIES INCLUDED IN THE SCOPING REVIEW

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### 131) Intracranial hypertension secondary to sigmoid sinus compression by group A streptococcal epidural abscess

Ludemann JP, Poskitt K, Singhal A. Intracranial hypertension secondary to sigmoid sinus compression by group A streptococcal epidural abscess. *J Laryngol Otol*. 2010 Jan;124(1):93-5. doi: 10.1017/S0022215109990764. Epub 2009 Aug 3. PMID: 19646300.

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Higuchi T, Ogawa E, Ikeyama T, Yasuda K, Murayama H, Hasegawa T, Ito K. Infectious Aneurysms Caused by Streptococcus Pyogenes in Children. *Pediatr Infect Dis J*. 2022 Oct 1;41(10):e442-e444. doi: 10.1097/INF.0000000000003651. Epub 2022 Jul 20. PMID: 35895891.

### 133) Incomplete limb ischemia as a complication in a pediatric patient with toxic-shock syndrome Iliacus abscess in a child.

Wolfsberger, C. H., Pfurtscheller, K., Ulreich, R., Pocivalnik, M., Vasilyeva, A., & Schintler, M. V. (2019). Incomplete limb ischemia as a complication in a pediatric patient with toxic-shock syndrome. *Journal of Pediatric Surgery Case Reports*, 49, 101282.

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Hummel BA, Blackburn J, Pham-Huy A, Muir K. High-dose steroid and heparin: a novel therapy for cerebral vasculitis associated with presumed group A *Streptococcus* meningitis. *BMJ Case Rep*. 2021 Feb 9;14(2):e239618. doi: 10.1136/bcr-2020-239618. PMID: 33563670; PMCID: PMC7875284.

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Coulter JB, Buchannon CR, Vellodi A, Hart CA, Sills JA. Group-A streptococcal infection in the newborn. *Lancet*. 1984 Aug 11;2(8398):355-6. doi: 10.1016/s0140-6736(84)92727-2. PMID: 6146901.

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Quach C, Tapiero B, Noya F. Group a streptococcus spinal epidural abscess during varicella. *Pediatrics*. 2002 Jan;109(1):E14. doi: 10.1542/peds.109.1.e14. PMID: 11773582.

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Liu VC, Stevenson JG, Smith AL. Group A Streptococcus mural endocarditis. *Pediatr Infect Dis J*. 1992 Dec;11(12):1060-2. PMID: 1461701.

### 138) Group a streptococcal suppurative arthritis and osteomyelitis of the shoulder with brachial plexus palsy in a newborn

Dierig A, Ritz N, Tacke U, Heininger U. Group A Streptococcal Suppurative Arthritis and Osteomyelitis of the Shoulder With Brachial Plexus Palsy in a Newborn. *Pediatr Infect Dis J*. 2016 Oct;35(10):1151-3. doi: 10.1097/INF.0000000000001255. PMID: 27622687.

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Al-Waili BR, Zacharias SK, Aslem E. Group A Streptococcal Pericarditis in a Four-Month-Old Infant: Case report. *Sultan Qaboos Univ Med J*. 2017 May;17(2):e241-e243. doi: 10.18295/squmj.2016.17.02.020. Epub 2017 Jun 20. PMID: 28690902; PMCID: PMC5488831.

### 140) Group A streptococcal panniculitis

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- 164) *Streptococcus pyogenes* meningitis in children: Report of two cases and literature review  
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- 165) *Streptococcus pyogenes* meningitis complicating varicella in a 3-month-old child  
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Gulsen S, Aydin G, Cömert S, Altınors N. Rapid Development of Brain Abscess Caused by Streptococcus Pyogenes Following Penetrating Skull Injury via the Ethmoidal Sinus and Lamina Cribrosa. J Korean Neurosurg Soc. 2010 Jul;48(1):73-8. doi: 10.3340/jkns.2010.48.1.73. Epub 2010 Jul 31. PMID: 20717517; PMCID: PMC2916153.

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Trujillo M, McCracken GH Jr. Prolonged morbidity in children with group A beta-hemolytic streptococcal pneumonia. Pediatr Infect Dis J. 1994 May;13(5):411-2. PMID: 8072825.

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Kwak BO, Lee MJ, Park HW, Song MK, Chung S, Kim KS. Necrotizing fasciitis and streptococcal toxic shock syndrome secondary to varicella in a healthy child. *Korean J Pediatr*. 2014 Dec;57(12):538-41. doi: 10.3345/kjp.2014.57.12.538. Epub 2014 Dec 31. PMID: 25653688; PMCID: PMC4316598.

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